

0062416

SAF-B04-004
100 BC Burial Grounds –
Other Solid Quick Turn
FINAL DATA PACKAGE

E:MAIL RESULTS TO:

Dave Shea

NA
INITIAL/DATE

Dean Strom

NA
INITIAL/DATE

COMPLETE COPY OF DATA PACKAGE TO:

Dave Shea

X3-40

mjr 5-6-04
INITIAL/DATE

Dean Strom

X3-40

mjr 5-6-04
INITIAL/DATE

COMMENTS: (PLEASE INCLUDE THE FOLLOWING ON THE COVER SHEET)

SDG

20040635

SAF-B04-004

Rad only X Chem only Rad & Chem

X Complete Partial

Sample Location/Waste Site: 100-B/C 118-B-1 rubber matting

RECEIVED
AUG 17 2004

EDMC

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ANALYTICAL LABORATORY REPORT
ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

for

Bechtel Hanford, Inc.
MSIN H9-02
Richland, WA 99352

Attention: J. Kessner MSIN: H9-02

Survey ID J01FT2

Data Validator MK Hamilton



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Group#: 20040635
Report Date 29-apr-2004
bulk/rev.r6

Fluor Hanford, Inc.
MSIN: S3-28
Richland, WA 99352 Phone 373-7403

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ANALYTICAL LABORATORY REPORT

ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing $>$ or $=$ 1% asbestos fibers.* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility is accredited by the American Industrial Hygiene Association (AIHA) to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by AIHA.

If there are questions concerning this report, please contact the data validator listed on the cover page of this report.

* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Results for such samples will be reported as 'indeterminate'. Confirmatory analysis by TEM is strongly recommended.

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ANALYTICAL LABORATORY REPORT

Attention: J. Kessner MSIN: H9-02

Group #: 20040635

| Sample # | Client ID | Test Performed | Range | Result | Units | Analyst | Sampled | Received | Analyzed |
|----------|-----------|----------------|-------|--------|-------|---------|---------|----------|----------|
|----------|-----------|----------------|-------|--------|-------|---------|---------|----------|----------|

W04I001952 J01FT2

The following are the results of this test-

Bulk Asbestos Layer 1

Cellulose

<

1

%

sdb

04/15/04

04/19/04

04/20/04

SAMPLE COMMENT--- Non-homogenous black rubber gasket with tan granular
SAMPLE COMMENT--- material, reportedly from 118-B-1/100 BC Burial Grounds.
SAMPLE COMMENT--- No asbestos was found in this sample.

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ANALYTICAL COMMENT REPORT

Attention: J. Kessner MSIN: H9-02

Group #: 20040635

| Sample # | Client ID | Lab Area | Test | Comment |
|------------|-----------|----------|-----------------------|---|
| | | VALGROUP | | Validated 4/29/04 by MK Hamilton, IH QA Coordinator. |
| W04I001952 | J01FT2 | LOGSAMP | | SAMPLE ACCEPTABLE FOR RECEIPT. REC'D BY K BEEBE 4/16/04 AND LOGGED BY MK GRANT 4/19/04. |
| | | | | MEDIA: BULK |
| | | TESTDATA | Bulk Asbestos Layer 1 | Non-homogenous black rubber gasket with tan granular material, reportedly from 118-B-1/100 BC Burial Grounds. |
| | | | | No asbestos was found in this sample. |

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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w04c/3 Report#: 20040635

Report Date: 29-apr-2004

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44

| Bechtel Hanford Inc. | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | | | B04-004-031 | | Page 1 of 1 | | |
|---|-------------|--|-------------|---|------|--|--|--------------------------------------|--|-----------------|--|---|
| Collector D.Bowers/D.Shea | | Company Contact Dave Shea | | Telephone No. 373-6425 | | Project Coordinator KESSNER, JH | | Price Code 3E | | Data Turnaround | | |
| Project Designation 100 BC Burial Grounds - Other Solid Quick Turn | | Sampling Location 118-B-1, rubber matting | | (DWS 4/14/04 surrounding soil) | | SAF No. B04-004 | | Air Quality <input type="checkbox"/> | | ASAP | | |
| Ice Chest No. ERC 02 1001 | | Field Logbook No. EFL-1173-1 | | COA R118B12000 | | Method of Shipment Gov'tment vehicle | | | | | | |
| Shipped To Waste Sampling & Characterization | | Offsite Property No. N/A | | | | Bill of Lading/Air Bill No. N/A | | | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS possibly radioactively contaminated, possibly contains PCBs Special Handling and/or Storage | | | | Preservation | None | | | | | | | |
| | | | | Type of Container | G/P | | | | | | | |
| | | | | No. of Container(s) | 1 | | | | | | | |
| | | | | Volume | 60mL | | | | | | | |
| | | | | Asbestos | | | | | | | | |
| SAMPLE ANALYSIS | | | | | | | | | | | | |
| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | |
| J01FT2 1104500952 | OTHER SOLID | 4/15/04 | 0832 | ✓ | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| CHAIN OF POSSESSION | | | | Sign/Print Names | | SPECIAL INSTRUCTIONS | | | | | | Matrix * |
| Relinquished By/Removed From D.Bowers/D.Shea 4-15-04/1710 | | Date/Time | | Received By/Stored In Ref IA 3728 4-15-04/1710 | | Lab WO# DB4030 segregate all waste from analysis for return to project - contact sample management Personnel not available to relinquish samples from 3728 Ref # 1A on 4/16/04 | | | | | | S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquid T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other |
| Relinquished By/Removed From REF IA 3728 4/16/04 1015 | | Date/Time | | Received By/Stored In SIGALE/MK Grant 4/16/04 1015 | | | | | | | | |
| Relinquished By/Removed From ERIC 4/16/04 1325 | | Date/Time | | Received By/Stored In MK Grant 4/16/04 1325 | | | | | | | | |
| Relinquished By/Removed From SD Bolling 4/16/04 56 | | Date/Time | | Received By/Stored In MK Grant 4-19-04 0900 | | | | | | | | |
| Relinquished By/Removed From Storage | | Date/Time | | Received By/Stored In SD Bolling 4/20/04 855 | | | | | | | | |
| Relinquished By/Removed From SD Bolling 4/20/04 | | Date/Time | | Received By/Stored In Storage | | | | | | | | |
| LABORATORY SECTION | | Received By MK Grant / MK Grant | | Title IH Sample Custodian | | Disposed By 4-19-04 0900 | | | | | | Date/Time |
| FINAL SAMPLE DISPOSITION | | Disposal Method | | Disposed By | | | | | | Date/Time | | |

VMS Gamma Spectroscopy Report generated 18-MAR-2004 11:59:04

Configuration : DKA100:[GAMMA.SCUSR.ARCHIVE]SMP RCF11478 DET1 50GRAMPILLBOX60
 Sample ID : J01BX5 Project Number : 100BC/118-B-1
 RFC Number : RCF11478 SAF Number : B04-004
 Sample Quantity : 2.00000E+01 GRAMS
 Sample Type : OTHER SOLID Sample Geometry :
 Sample Date : 17-MAR-2004 10:45:00 Acquisition date : 18-MAR-2004 09:45:19
 Decay time : 0 23:00:19.97 % dead time : 0.0%
 Elapsed live time: 0 01:00:00.00 Elapsed real time: 0 01:00:00.10
 Energy cal. time : 12-SEP-2003 16:47:37 Effic. cal. time : 24-OCT-2003 09:52:54
 Detector name : BEGE 3820 Counting geometry: 50Gram pill box
 Peak Sensitivity : 3.00000
 Efficiency Type : EMPIRICA Energy tolerance: 2.00000

Combined Activity-MDA Report

---- Non-Identified Nuclides ----

| Nuclide | Key-Line Activity (pCi/GRAM) | K.L. Ided | Act_error | MDA (pCi/GRAM) | MDA error | Act/MDA |
|---------|------------------------------------|--------------|-----------|-------------------|-----------|---------|
| K-40 | 1.178E+00 | | 3.606E+00 | 6.316E+00 | 6.432E-01 | 0.187 |
| CO-60 | 1.230E-01 | | 3.487E-01 | 6.199E-01 | 6.104E-02 | 0.198 |
| AG-108m | 3.774E-03 | | 1.956E-01 | 3.256E-01 | 4.662E-02 | 0.012 |
| CS-137 | 1.010E-01 | | 2.160E-01 | 3.788E-01 | 4.158E-02 | 0.267 |
| EU-152 | 9.458E-01 | + | 3.492E-01 | 4.941E-01 | 7.036E-02 | 1.914 |
| EU-154 | 6.890E-01 | + | 2.505E-01 | 2.218E-01 | 2.816E-02 | 3.107 |
| EU-155 | 4.520E-02 | | 1.468E-01 | 2.174E-01 | 2.412E-02 | 0.208 |
| RA-226 | 2.009E+00 | | 2.547E+00 | 3.906E+00 | 3.917E-01 | 0.514 |
| AC-228 | 6.598E-01 | | 1.302E+00 | 2.481E+00 | 5.229E-01 | 0.266 |
| TH-234 | 1.260E-01 | | 8.805E-01 | 1.270E+00 | 5.279E-01 | 0.099 |
| U-235 | 1.104E-01 | | 1.443E-01 | 2.210E-01 | 2.370E-02 | 0.500 |
| AM-241 | -7.025E-03 | | 1.313E-01 | 1.782E-01 | 2.114E-02 | -0.039 |

Approved by:

Mark Kovich

Approval Date: 3 / 18 / 04

Mark Kovich

118-B-1

rubber material

3/17/04